

Form PTO-1449

**INFORMATION DISCLOSURE CITATION
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Docket Number (Optional)
BIV-052.02(21459-5202)Application Number
09/435,733

Applicant Galdes et al.

Filing Date November 8, 1999

Group Art Unit 1646

U.S. PATENT DOCUMENTS

| EXAMINER INITIAL | DOCUMENT NUMBER | DATE | NAME | CLASS | SUBCLASS | FILING DATE IF APPROPRIATE |
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FOREIGN PATENT DOCUMENTS

| | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUBCLASS | Translation | |
|----|-----------------|----------|---------|-------|----------|-------------|----|
| | | | | | | YES | NO |
| MB | HQ WO 95/18856 | 07/13/95 | PCT | | | | X |
| MB | HR WO 99/ 29854 | 06/17/99 | PCT | | | | X |

OTHER DOCUMENTS

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| MB | HS | International Search report CONSIDERED, DO NOT PRINT | | | | | |
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EXAMINER

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U.S. PATENT DOCUMENTS

| EXAMINER INITIAL | DOCUMENT NUMBER | DATE | NAME | CLASS | SUBCLASS | FILING DATE IF APPROPRIATE |
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| | AB 5,223,408 | 06/29/93 | Goeddel et al. | 435 | 69.3 | 07/11/91 |
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FOREIGN PATENT DOCUMENTS

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| | AK WO 92/15679 | 9/17/92 | PCT | C 12N | 15/10 | | |
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| BE | EP 0187 371 A2 | 07/16/86 | European Patent Application | | | | |
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| BJ | JP 02 27 36 10 | | Japan | | | | |
| BK | JP 04 30 55 28 | | Japan | | | | |

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| BM | Angier, N., " Biologists find key genes that shape patterning of embryos", <i>New York Times</i> , Jan. 11, 1994, C-1. | | | | | | |
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| BO | Apfel, S. et al., "Nerve Growth Factor Prevents Experimental Cisplatin Neuropathy ", <i>Ann. Neurol.</i> 31 : 76-80 (1992). | | | | | | |
| BP | Basler, K. and G. Struhl, "Compartment boundaries and the control of <i>Drosophila</i> limb pattern by Hedgehog protein", <i>Nature</i> 368 :208-214 (1994). | | | | | | |
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| BR | Bass, S. et al., "Hormone phage: An enrichment method for variant proteins with altered binding properties", <i>PROTEINS: Structure, Function, and Genetics</i> 8 :309-314 (1990). | | | | | | |
| BS | Bejsovec, A. and E. Wieschaus, "Segment polarity gene interactions modulate epidermal patterning in <i>Drosophila</i> embryos", <i>Development</i> 119 :501-517 (1993). | | | | | | |
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| BW | Brand-Saber, B. et al., "The ventralizing effect of the notochord on somite differentiation in chick embryos", <i>Anat. Embryol.</i> 188 :239-245 (1993). | | | | | | |
| BX | Brockes, J., "We may not have a morphogen", <i>Nature</i> 350 :15 (1991). | | | | | | |
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| BZ | Bumcrot, D. A. and A. McMahon, "Sonic hedgehog: Making the gradient", <i>Chem. Biol.</i> 3 (1):13-16 (Jan 1996). | | | | | | |
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| CB | Charité, J. et al., "Ectopic expression of <i>Hoxb-8</i> causes duplication of the ZPA in the forelimb and homeotic transformation of axial structures", <i>Cell</i> 78 :589-601 (1994). | | | | | | |

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| CE | Curry, et al., "Sequence analysis reveals homology between two proteins of the flagellar radial spoke", <i>Mol. Cell. Biol.</i> <u>12</u> :3967-3977 (1992). |
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| CO | Ettalaie, C. et al., "The effect of lipid peroxidation and lipolysis on the ability of lipoproteins to influence thromboplastin activity", <i>Biochim. Biophys. Acta.</i> <u>1257</u> (1):25-30 (June 1995). |
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| CU | Francis, P. H. et al., "Bone morphogenetic proteins and a signaling pathway that controls patterning in the developing chick limb", <i>Devel.</i> <u>120</u> :209-218 (1994). |
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| DZ | Johnson, R. L. et al., "Ectopic expression of sonic hedgehog alters dorsal-ventral patterning of somites", <i>Cell</i> 79(7):1165-1173 (Dec. 1994). |

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| EB | Johnson, R. L. et al., "Sonic hedgehog: a key mediator of anterior-posterior patterning of the limb and dorso-ventral patterning of axial embryonic structures" <i>Biochem. Soc. Trans.</i> <u>22</u> (3):569-574 (Aug. 1994). |
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| EE | Keonin, E., "A protein splice-junction motif in hedgehog family proteins", <i>Trends Biochem. Sci.</i> <u>20</u> (4):141-142 (April 1995). |
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| EG | Kornfeld, R. and S. Kornfeld, "Assembly of asparagine-linked oligosaccharides", <i>Ann. Rev. Biochem.</i> <u>54</u> :631-664 (1985). |
| EH | Krauss, S. et al., "Expression of the zebrafish paired box gene <i>pax[zf-b]</i> during early neurogenesis", <i>Devel.</i> <u>113</u> :1193-1206 (1991). |
| EI | Krauss, S. et al., "A functionally conserved homolog of the Drosophila Segment polarity gene <i>hh</i> is expressed in tissues with polarizing activity in zebrafish embryos", <i>Cell</i> <u>75</u> :1431-1444 (1993). |
| EJ | Lai, C. et al., "Patterning of the neural ectoderm of <i>Xenopus laevis</i> by the amino-terminal product of hedgehog autoproteolytic cleavage", <i>Devel.</i> <u>121</u> :2349-2360 (1995). |
| EK | Laufer, E. et al., "Sonic hedgehog and <i>Fgf-4</i> act through a signaling cascade and feedback loop to integrate growth and patterning of the developing limb bud", <i>Cell</i> <u>79</u> :993-1003 (16 Dec. 1994). |
| EL | Lee, J. J. et al., "Secretion and localized transcription suggest a role in positional signaling for products of the segmentation gene <i>hedgehog</i> ", <i>Cell</i> <u>71</u> :33-50 (1992). |
| EM | Lee, J. J. et al., "Autoproteolysis in hedgehog protein biogenesis", <i>Science</i> <u>266</u> (5190):1528-1537 (Dec. 1994). |
| EN | Lee, S. J., "Expression of growth/differentiation factor 1 in the nervous system: Conservation of a bicistronic structure", <i>Proc. Natl. Acad. Sci. USA</i> <u>88</u> :4250-4254 (Year). |
| EO | Levin, M. et al., "A molecular pathway determining left-right asymmetry in chick embryogenesis", <i>Cell</i> <u>82</u> (5):803-814 (Sept. 8, 1995). |
| EP | Li, W. et al., "Function of protein kinase A in hedgehog signal transduction and drosophila imaginal disc development", <i>Cell</i> <u>80</u> (4):553-562 (Feb. 1995). |
| EQ | Lipton, R. et al., "Taxol Produces a Predominantly Sensory Neuropathy", <i>Neurology</i> <u>39</u> :368-373; (March, 1989). |
| ER | Lopez-Martinez, A. et al., "Limb-patterning activity and restricted posterior localization of the amino-terminal product of sonic hedgehog cleavage", <i>Curr. Biol.</i> <u>5</u> (7):791-796 (July 1995). |
| ES | Lumsden, A. and A. Graham, "Neural patterning: A forward role for hedgehog", <i>Curr. Biol.</i> <u>5</u> (12):1347-1350 (Dec. 1995). |
| ET | Ma, C. et al., "Molecular cloning and characterization of rKik10, a cDNA encoding T-kininogenase from rat submandibular gland and kidney", <i>Biochem.</i> <u>31</u> (44):10922-10928 (1992). |
| EU | Ma, C. et al., "The segment polarity gene <i>hedgehog</i> is required for the progression of the morphogenetic furrow in the developing Drosophila eye", <i>Cell</i> <u>75</u> :927-938 (1993). |
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| EW | Marigo, V. et al., "Biochemical evidence that <i>patched</i> is the hedgehog receptor", <i>Nature</i> <u>384</u> :176-179 (1996). |
| EX | Maccabe, J. A. and B. W. Parker, "The target tissue of limb-bud polarizing activity in the induction of supernumerary structures", <i>J. Embryol. Exp. Morph.</i> <u>53</u> :67-73 (1979). |
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| | FA | Marti, E. et al., "Requirement of 19K form of Sonic hedgehog for induction of distinct ventral cell types in CNS explants", <i>Nature</i> <u>375</u> (6529):322-325 (May 1995). |
| | FB | Matise, M. et al., "Gli2 is Required for Induction of Floor Plate and Adjacent Cells, But Not Most Ventral Neurons in the Mouse Central Nervous System", <i>Development</i> <u>125</u> : 2759-2770 (1998). |
| | FC | Mazullo, F. et al., "Activation of four homeobox gene clusters in human embryonal carcinoma cells induced to differentiate by retinoic acid", <i>Differentiation</i> <u>37</u> :73-79 (1988). |
| | FD | McGinnis, W. and R. Krumlauf, "Homeobox genes and axial patterning", <i>Cell</i> <u>68</u> :283-302 (1992). |
| | FE | Mohler, J., "Requirements for <i>hedgehog</i> , a segmental polarity gene, in patterning larval and adult cuticle of <i>Drosophila</i> ", <i>Genetics</i> <u>120</u> :1061-1072 (1988). |
| | FF | Mohler, J. and K. Vani, "Molecular organization and embryonic expression of the <i>hedgehog</i> gene involved in cell-cell communication in segmental patterning of <i>Drosophila</i> ", <i>Devel.</i> <u>115</u> :957-971 (1992). |
| | FG | Morgan, B. A. et al., "Targeted misexpression of <i>Hox-4.6</i> in the avian limb bud causes apparent homeotic transformations", <i>Nature</i> <u>358</u> :236-239 (1992). |
| | FH | Mollman, J., "Cisplatin Neurotoxicity", <i>The New England Journal of Medicine</i> , <u>322</u> (2): 126-127 (Jan. 11, 1990). |
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